Date=09/07/2020 Lecture By=Shubham Joshi Notes By=Upadhyay Hemanshu Subject ⇒ Python

IN PREVIOUS LECTURE (QUICK RECAP) Date-08/07/2020	In today's Lecture (Overview)					
⇒What does the <b>ifname ==</b> " <b>main</b> ": do?	⇒ What Is Ascii Value?? -ord -chr					
⇒ What is <b>Python</b> Loops?	⇒ End command in python					
⇒ For Loop	⇒ What <b>is Comments</b> In Python??					
⇒ While Loop	⇒ Range In Python					
⇒ Continue Command	⇒ What Is <b>DX</b> in Python??					
⇒ Break Command	⇒ What Is Prime Number??					
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### ⇒ End command in python

-i n Python 3, "end =' " appends space instead of newline.

- print x, # Trailing comma suppresses newline in Python 2 print(x, end=" ") # Appends a space instead of a newline in Python 3.

```
1 item = input("Letter: ")
2 ip = input("Input: ").lower()
3 r = ip.count(item)
4 print (r)
5 ip = ip.split()
6 for word in ip:
7    if item in word:
8        print((word), end = ' ')
9

P Run    Terminal    Save

D Letter: e
Input: The quick brown fox jumps over the lazy dog.
3    the over the
```

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### **⇒ What Is Ascii Value??**

- -ASCII stands for American Standard Code for Information Interchange
- It is a numeric value given to different **characters and symbols**, for computers to store and manipulate.
- -the ASCII value of the letter 'A' is 65.
- -To **get the ASCII code** of a character, use the ord() function. To **get** the character encoded by an **ASCII code** number, **use the chr() function**. To know if all the characters present in a string are alphanumeric i.e. they are alphabets and numeric, use

#### the isalnum() function.

# **ASCII Table**

Dec	Hex	0ct	Char	Dec	Hex	0ct	Char	Dec	Hex	0ct	Char	Dec	Hex	0ct	Char
0	0	0		32	20	40	[space]	64	40	100	@	96	60	140	*
1	1	1		33	21	41	!	65	41	101	A	97	61	141	a
2	2	2		34	22	42		66	42	102	В	98	62	142	b
3	3	3		35	23	43	#	67	43	103	C	99	63	143	c
4	4	4		36	24	44	\$	68	44	104	D	100	64	144	d
5	5	5		37	25	45	%	69	45	105	E	101	65	145	e
6	6	6		38	26	46	&	70	46	106	F	102	66	146	f
7	7	7		39	27	47		71	47	107	G	103	67	147	g
8	8	10		40	28	50	(	72	48	110	н	104	68	150	h
9	9	11		41	29	51	)	73	49	111	I	105	69	151	i
10	Α	12		42	2A	52	*	74	4A	112	J	106	6A	152	j
11	В	13		43	2B	53	+	75	4B	113	K	107	6B	153	k
12	C	14		44	2C	54	,	76	4C	114	L	108	6C	154	ı
13	D	15		45	2D	55	-	77	4D	115	М	109	6D	155	m
14	E	16		46	2E	56		78	4E	116	N	110	6E	156	n
15	F	17		47	2F	57	/	79	4F	117	0	111	6F	157	0
16	10	20		48	30	60	0	80	50	120	P	112	70	160	p
17	11	21		49	31	61	1	81	51	121	Q	113	71	161	q
18	12	22		50	32	62	2	82	52	122	R	114	72	162	r
19	13	23		51	33	63	3	83	53	123	S	115	73	163	S
20	14	24		52	34	64	4	84	54	124	Т	116	74	164	t
21	15	25		53	35	65	5	85	55	125	U	117	75	165	u
22	16	26		54	36	66	6	86	56	126	V	118	76	166	V
23	17	27		55	37	67	7	87	57	127	W	119	77	167	w
24	18	30		56	38	70	8	88	58	130	X	120	78	170	×
25	19	31		57	39	71	9	89	59	131	Y	121	79	171	У
26	1A	32		58	3A	72	:	90	5A	132	Z	122	7A	172	Z
27	1B	33		59	3B	73	;	91	5B	133	[	123	7B	173	{
28	1C	34		60	3C	74	<	92	5C	134	\	124	7C	174	
29	1D	35		61	3D	75	=	93	5D	135	]	125	7D	175	}
30	1E	36		62	3E	76	>	94	5E	136	^	126	7E	176	~
31	1F	37		63	3F	77	?	95	5F	137	_	127	7F	177	

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### **⇒ What is Comments In Python??**

- -Comments can be used to explain Python code.
- -Comments can be used to make the code more readable.
- **-Comments** can be used to prevent execution when testing code.

## Example

```
#This is a comment
print("Hello, World!")
```

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#### -Multi Line Comments

- -Python does not really have a syntax for multi line comments.
- -To add a multiline comment you could insert a # for each line:

Example;

```
#This is a comment
#written in
#more than just one line
print("Hello, World!")
```

### -Multiline string Comments

-Since Python will ignore string literals that are not assigned to a variable, you can add a multiline string (triple quotes) in your code, and place your comment inside it:

### Example

```
This is a comment
written in
more than just one line
"""
print("Hello, World!")

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```

#### ⇒ Range In Python

-The range() function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and stops before a specified number.

#### **Parameter Values**

Parameter	Description
start	Optional. An integer number specifying at which position to start. Default is 0
stop	Required. An integer number specifying at which position to stop (not included).
step	Optional. An integer number specifying the incrementation. Default is 1

### **Example**

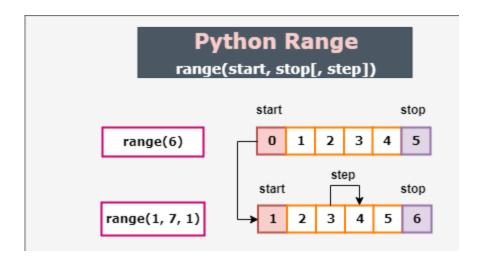
Create a sequence of numbers from 3 to 5, and print each item in the sequence:

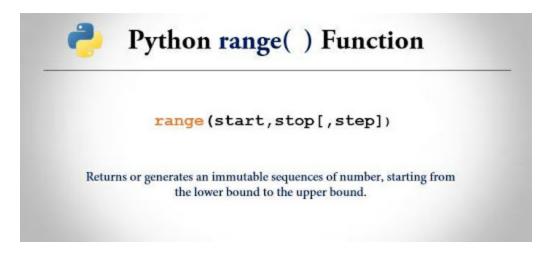
X = range(3, 6) for n in x: print(n)

## **Example**

Create a sequence of numbers from 3 to 19, but increment by 2 instead of 1:

x = range(3, 20, 2) for n in x: print(n)





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### ⇒ What Is IDX in Python??

- -"idx" is usually short for index.
- **-Python** loops allows items in a nested list to be accessed directly like so: >>> lst = [[1, 2], [3, 4], [5, 6]] >>> >>> for a,b in lst: print a,b 1 2 3 4 5 6.
- -IDX is Also Known As "Enumerate"

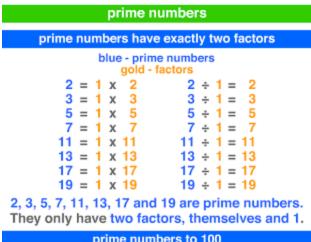
```
x = 2
for i in range(3):
    print(x, end = ' ')
    x += i
a. 0 1 2
b. 2 3 5
c. 2 2 3
d. 1 2 4
e, none of the above
Question 2
noise = 'hullaballoo'
idx = 0
while idx < len(noise):
    let = noise[idx]
    print(let, end='')
    letCount = noise.count(let)
    if idx > 2:
        idx += letCount
    else:
        idx += 1
a. an infinite sequence of h's
b. hulal
c. hulll
d. hlaal
e. none of the above
```

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### ⇒ What Is Prime Number??

-a number that is divisible only by itself and 1 (e.g. 2, 3, 5, 7, 11).



,,											
prime numbers to 100											
	1	2	3	4	5	6	7	8	9	10	
	11	12	13	14	15	16	17	18	19	20	
	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	49	50	
	51	52	53	54	55	56	57	58	59	60	
	61	62	63	64	65	66	67	68	69	70	
	71	72	73	74	75	76	77	78	79	80	
	81	82	83	84	85	86	87	88	89	90	
	91	92	93	94	95	96	97	98	99	100	
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#### ⇒ Questions For Self Practice/ CC

-Q1. https://www.hackerrank.com/challenges/python-loops/problem

```
-Q2. Print the below pattern given by user
*
* *
```